REPORT AND INDEX OF

UNDERWAY MARINE GEOPHYSICAL DATA

STUDENT CRUISE

(981107RR)

R/V Revelle

(Issued March 1999)

Ports:

San Diego, California (7 November 1998)

to

San Diego, California (7 November 1998)

Chief Scientist:

David Checkley, Scripps Institution
email: dcheckley@ucsd.edu

Resident Marine Technicians - Bob Wilson & Tammy Koonce

Computer Technician - Jim Charters

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 92093-0223

GDC Cruise I.D.# 283

REPORT AND INDEX OF NAVIGATION
AND UNDERWAY GEOPHYSICAL DATA

Processed by the Geological Data Center
Scripps Institution of Oceanography

Contents:

Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.

Track Charts - annotated with dates and hour ticks.

Profiles - depth, magnetic and gravity free air anomaly vs. distance. (Sections of track with seismic reflection data have a wide black line along the bottom of the profile.)

Sample Index - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines collected on the leg.

NOTE: One or more of the underway data types may not be collected on a given leg. For information on the availability and reproduction costs of data in the following forms, contact S.M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223. Phone: (619)534-2752, FAX: (619)534-6500, Internet email: ssmith@ucsd.edu

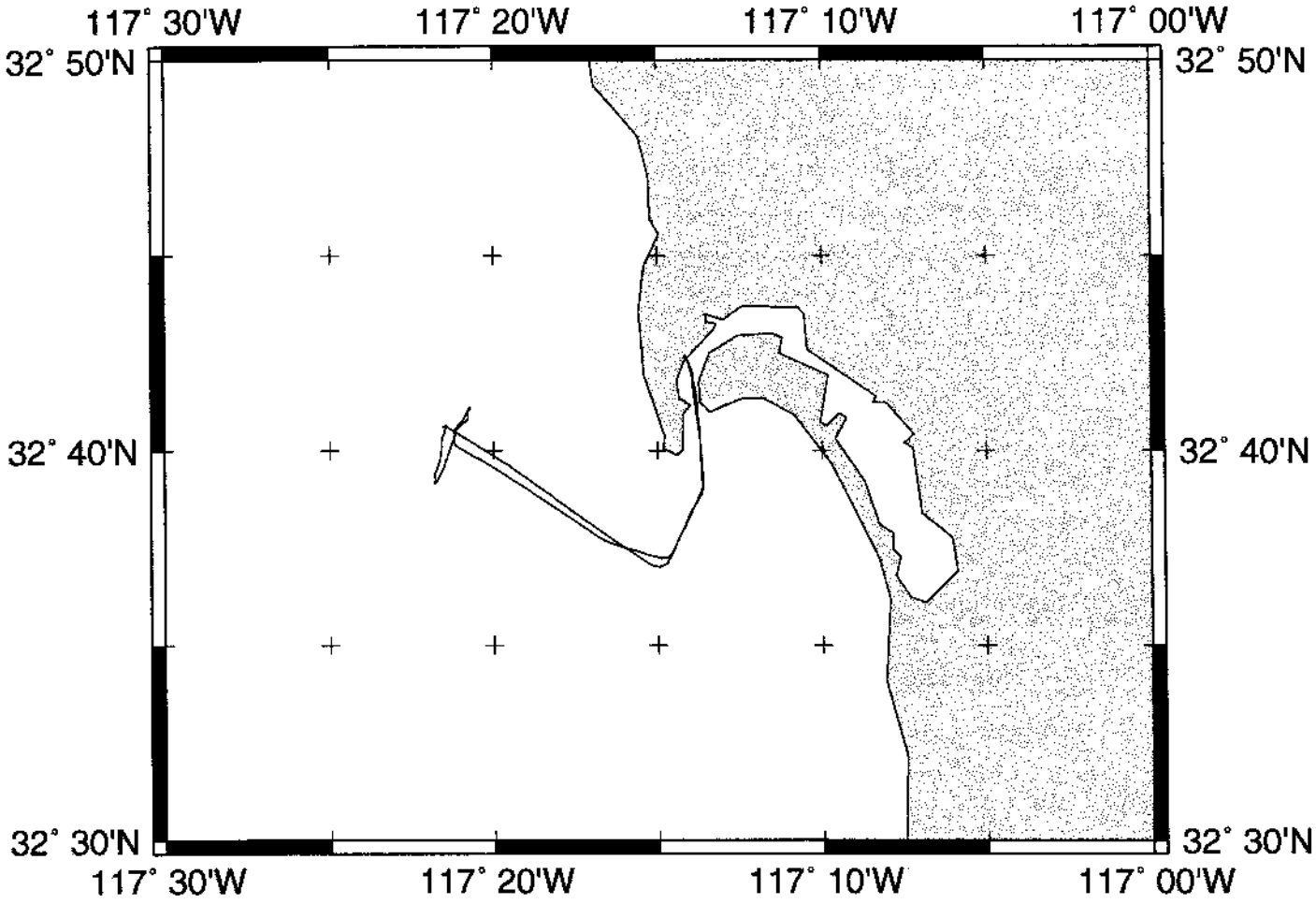
1. Files via ftp or on 8mm (Exabyte) and 4mm (DAT) magnetic tape:
   a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
   b) Above data in a single merged ASCII file in the MGD77 Exchange Format.
   c) SeaBeam depth data (binary, Sun byte order)
   d) SeaBeam Sidescan data.

2. Microfilm (35 mm flowfilm) or hard copies of:
   a) Underway watch log book.
   b) SeaBeam vertical beam profile/Sidescan records.
   c) 3.5 kHz and 12 kHz echosounder records.
   d) Seismic reflection profiler records.

3. Navigation listing with times and positions of fixes and course and speed changes.

4. Custom plots in Mercator projection:
   a) Track plots.
   b) SeaBeam depth contour plots.
   c) Depth, magnetic or gravity values printed or profiled along track.

rev 4/98



STUDENT CRUISE (981107RR)

CHIEF SCIENTIST: David Checkley, Scripps Institution

PORTS: San Diego - San Diego, California

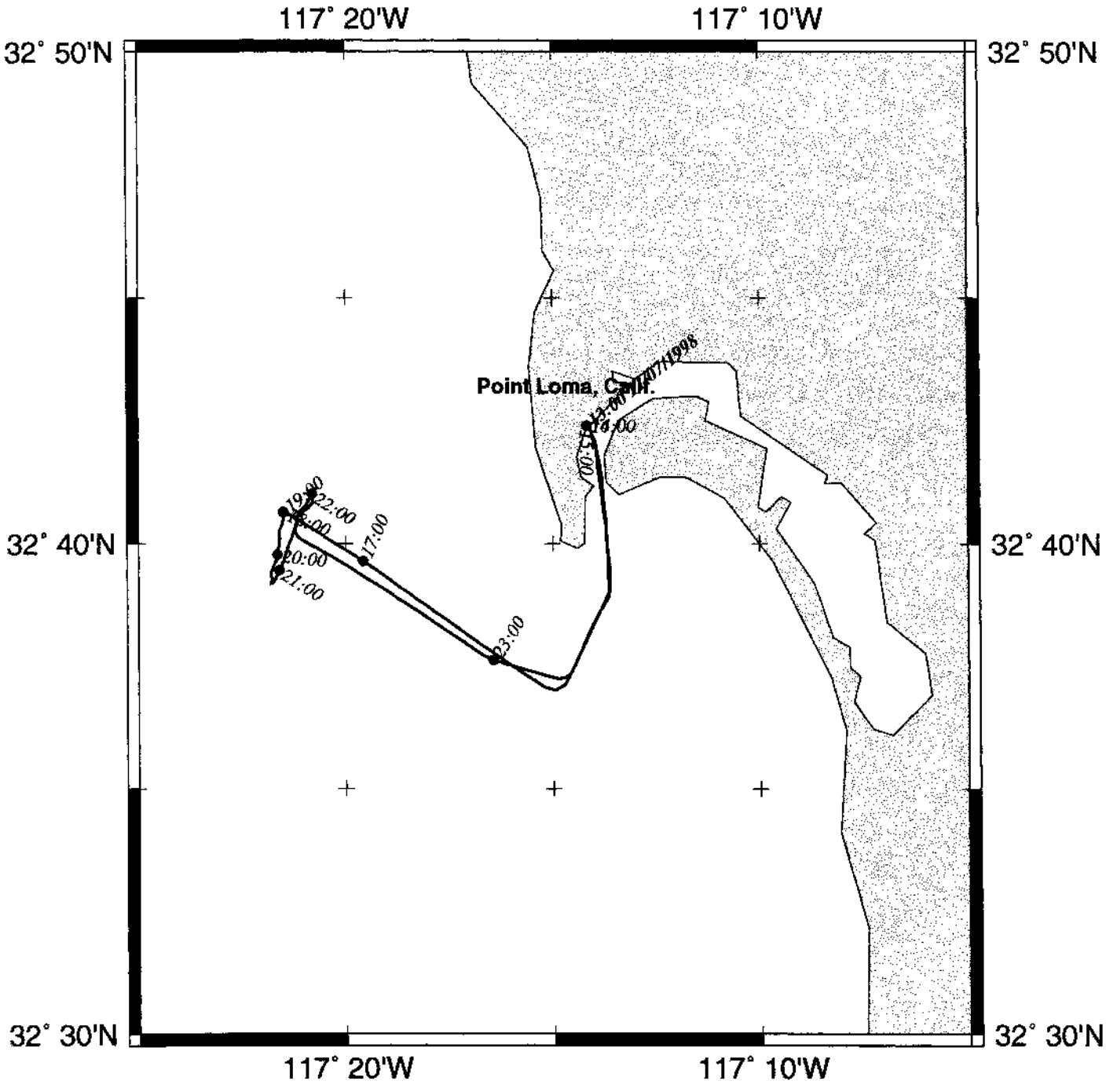
DATES: 7 November 1998

SHIP: R/V Revelle

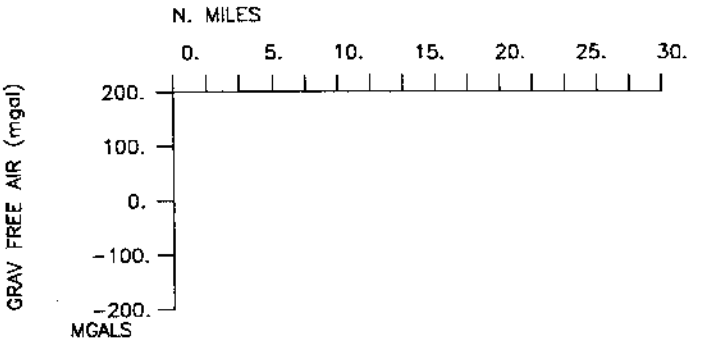
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

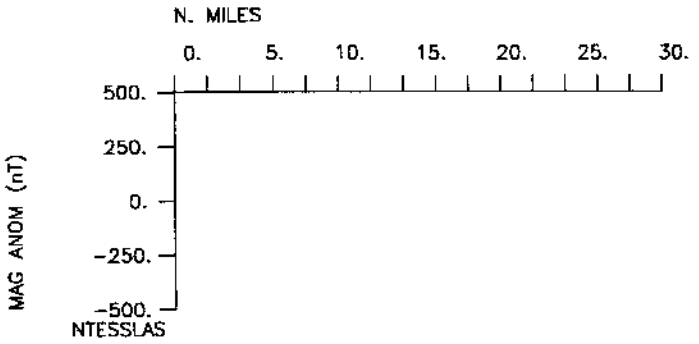
Cruise - 29 miles	**Magnetics - none collected**
Bathymetry - 29 miles	**Seismic Reflection - none collected**
Sea Beam - 29 miles	**Gravity - none collected**

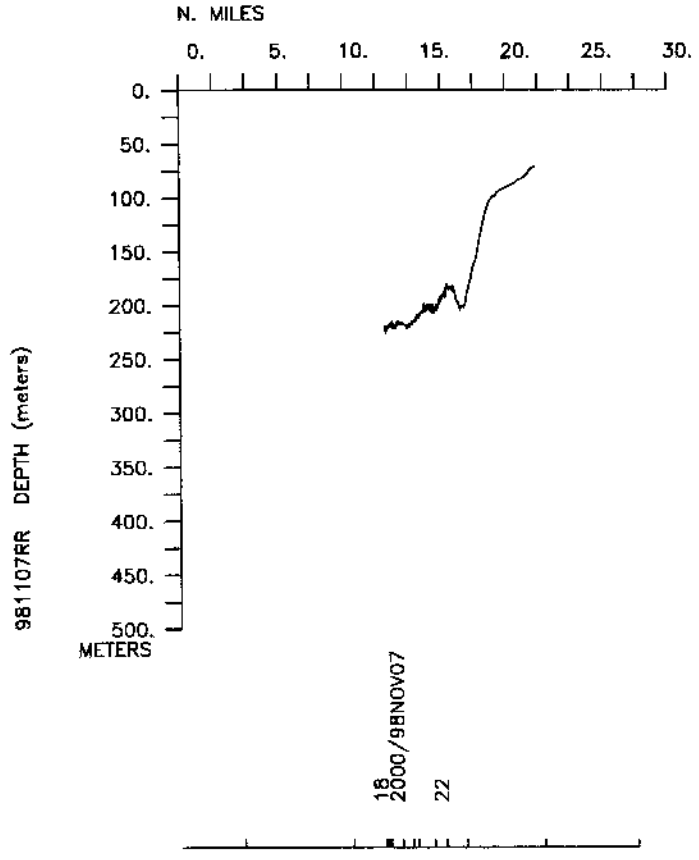
981107RR Track



GMT Mar 3 11:29 :San Diego - San Diego, California, 07 November 1998:


N. MILES
0. 5. 10. 15. 20. 25. 30.
GRAV FREE AIR (mgal)
200.
100.
0.
-100.
-200.
MGALS


N. MILES
0. 5. 10. 15. 20. 25. 30.
MAG ANOM (nT)
500.
250.
0.
-250.
-500.
NTESSLAS


N. MILES
0. 5. 10. 15. 20. 25. 30.
981107RR DEPTH (meters)
0.
50.
100.
150.
200.
250.
300.
350.
400.
450.
500.
METERS
18
2000/98NOV07
22

S.I.O. SAMPLE INDEX

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The Sample Index is a first level interdisiplinary listing of time, position, sample identification and disposition of all samples, records and measurements collected on this cruise leg. The index data are encoded at sea by the resident marine technician and processed on shore by the S.I.O. Geological Data Center shortly after the completion of the cruise leg.

Positions are interpolated on the basis of sample time by comparison to a single, edited navigation file. Samples beginning at one time and position and ending at another are entered on two consecutive lines. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

GDC Cruise I.D.# 283

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#*** Ports ***

1256 071198 0  LGPT B San Diego, California      32-40.00N 117-14.00W f 981107RR
2356 071198 0  LGPT E San Diego, California      32-40.00N 117-14.00W f 981107RR

#*** Personnel ***
#         ********NAME******** ******TITLE******  *****AFFILIATION**** **CRID**
#--- ---- -------------------- ------------------  -------------------- --------

PECS GRD  Checkley, D.         Chief scientist     Scripps Institution  981107RR
PESP STS  Moe, R.              Computer Tech       Scripps Institution  981107RR
PESP STS  Charters, J.         Computer Tech       Scripps Institution  981107RR
PESP GRD  Levin, L.            Scientist           Scripps Institution  981107RR
PESP STS  Peckman, U.          SeaBeam Processor   Scripps Institution  981107RR
PESP SIO  Rosenblatt, R.       Scientist           Scripps Institution  981107RR
PESP STS  Sutherland, W.       Scientist           Scripps Institution  981107RR
PERT STS  Wilson, R.           Resident Tech       Scripps Institution  981107RR
PERT STS  Koonce, T.           Resident Tech       Scripps Institution  981107RR


#*** NOTES ***
#An 'X' in the (B)egin/(E)nd column following the sample code indicates no
#sample or data recovered.  A 'C' indicates continuation of data collection
#from before the beginning or after the end of a particular leg.  (Moored
#bottom instruments, for example.)  The number appearing in the columns
#between the sample identifier and the disposition code, for many sample
#entries, is the water depth in corrected meters.

#GMT DDMMYY    SAMP B SAMPLE                 DISP                        p CRUISE
#TIME DATE  TZ CODE E IDENTIFIER             CODE LATITUDE  LONGITUDE    c LEG-SHIP
#---------- -- ---- - -------------------------- ---- --------- ---------- - --------

#*** Underway Data Curator - S. M. Smith  ext. 42752 ***

#*** Sea Beam Records (Side Scan Only) ***

1728 071198  0 MBSR B sidescan r-01          GDC  32-40.63N 117-21.50W g 981107RR
2333 071198  0 MBSR E sidescan r-01          GDC  32-41.59N 117-13.86W g 981107RR

#*** Echo Sounder Records ***

1619 071198  0 DPR3 B Knudsen 3.5kHz r-01    GDC  32-40.76N 117-13.78W g 981107RR
2330 071198  0 DPR3 E Knudsen 3.5kHz r-01    GDC  32-41.23N 117-13.80W g 981107RR

#*** Conductivity, Temperature, Depth ***

1730 071198  0 TDCT B CTD deployed EH         STS  32-40.63N 117-21.49W g 981107RR
1800 071198  0 TDCT E CTD on deck EH          STS  32-40.62N 117-21.50W g 981107RR

#*** Multi Core ***

1830 071198  0 COXX B Multi Core dply EW      GCR  32-40.63N 117-21.49W g 981107RR
1900 071198  0 COXX E Multi Core rec  EH      GCR  32-40.63N 117-21.49W g 981107RR

#*** Net Tows ***

1930 071198  0 ONBG B Bongo Tow dply EW       MLRG 32-40.48N 117-21.51W g 981107RR
2001 071198  0 ONBG E Bongo Tow rec EW       MLRG 32-39.74N 117-21.65W g 981107RR

2131 071198  0 TMXX B Manta tow dply EW       MLRG 32-40.39N 117-21.19W g 981107RR
2146 071198  0 TMXX E Manta tow rec EW       MLRG 32-40.72N 117-21.00W g 981107RR

#*** Trawl ***

2055 071198  0 TBOT B Otter Trawl dply EW    MLRG 32-39.29N 117-21.68W g 981107RR
2210 071198  0 TBOT E Otter Trawl rec EW     MLRG 32-40.98N 117-20.80W g 981107RR

#                          End Sample Index                              981107RR
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